



# Automatic Diaphragm Valves

October 15, 2019

St. John's, NL

## WORKSHOP DESCRIPTION:

This class will educate the attendee on the basics of Automatic Control Valves. Ever wonder how that valve does its magic? The class will show how the valve operates, how to take key components apart for preventative maintenance as well as troubleshooting, as well as learning the keys to ensure your Pressure Reducing Valve (as well as other Control Valves) work reliably for a long time. Additionally, we will guide the attendees on Valve Sizing, Preventative Maintenance (what and when) as well as how managing your system's pressure can save money and line breaks.

8:00am: Start

Hydraulics: (30 min)

- Hydraulic Fundamentals

8:30 Control Valve Main Body (75 min)

- Main Valve Body Basics
- Key Options to Consider for Ease of Maintenance
- Hands On – Taking a 4" (100mm ) Valve Body Apart
- Diaphragm Choices..... why look at different types?
- How Does a Diaphragm Valve Open and Close

10:00 Pressure Reducing Valve (75min)

- Introducing a Pilot system
- Pressure Reducing Valves
- Hands On – taking a PR Pilot apart
- Hands On – Assemble PR pilot system on valve

11:15 Pressure Relief/Sustaining Valve (60 min)

- Pressure Relief / Pressure Sustaining Valves
- Hands On - Taking a Pressure Relief Pilot apart
- Hands On – Assemble Relief/Sustaining pilot system on valve

12:00 Lunch

1:00 Working with the Valves in the field (60 min)

- Starting up a New Valve
- Troubleshooting valves.

2:00 Choosing the right valve and when should it be maintained. (90 min)

- Valve Sizing, theoretical and automated program
- Proper Installation or Control Valves in a system (What other components should be used)
- Preventative Maintenance - What should be done and when?

3:30 Pressure Management and its Value (90 min)

- Basic Pressure Management to reduce water-loss (NRW Reduction) and reduce line breaks.

## COURSE FORMAT:

Every attempt is made to keep the course informal and an enjoyable day-long training experience. Registration starts at 8:30 am, and the instructor will start shortly after 8:30. Lunch is 12:00-1:00pm. Wrap-up time is usually around 4:30pm. Though all workshops are non-smoking, ample breaks are provided for coffee and discussion.

**PRESENTER: Jody Malo**

Jody Have worked in the water industry for over 25 years after graduating from UBC in Vancouver, BC. Recently he was the Director of Sales for Singer Valve, an automatic control valve manufacturer for the water industry based in British Columbia. At Singer he traveled the world teaching engineers, municipal workers, and well as contractors on all key aspects of control valves. He taught course on maintenance and troubleshooting, as well valve selection on applications ranging from basic to difficult. During his 6.5 years at Singer Jody taught and spoke at water conferences around the globe, as well as oversaw Singer’s training programs at the factory.

While at Singer, Jody sat on the AWWA C-530 Committee to help guide the AWWA to create a new Control Valve Standard. These new standards have just been completed and are now available.

In April, he moved to the east coast from Vancouver to work for Omnitech Inc, a local Representative of Singer Valve, as well as a representative of many other valve and instrumentation manufacturers. His extensive years in the water industry as well as intimate knowledge of controls during his time at Singer, makes him well equipped to educate all those involved with Automatic Control Valves.

**CONTACT INFORMATION:**

Registration can be made by faxing or mailing the registration form on the reverse of this page, or on-line at [www.acwwa.ca](http://www.acwwa.ca). For further information, please contact ACWWA Section office at 902-434-6002.

**COURSE LOCATION:**

Fairfield By Marriott 199 Kenmount Road St. John’s, NL A1B 3P9

**Automatic Diaphragm Valves                      October 15, 2019                      St. John’s, NL**

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

ACWWA Membership #: \_\_\_\_\_ WEF Membership #: \_\_\_\_\_  
(If no membership number is listed, you will be invoiced as a non-member. See pricing below.)

**Fee for ACWWA or WEF Members & Employees of Utility Members**  
Course: \$295.00 + \$44.25 HST (15%) = \$339.25

**Fee for Non – Members**  
Course: \$315.00 + \$47.25 HST (15%) = \$362.25

Fees include coffee breaks and lunch

**Payment can be made by visa, master card or cheque. Invoices will be sent to the address listed above.**

**Please send PO number if you want it included on the invoice.** \_\_\_\_\_

Card Holder’s Name \_\_\_\_\_

Card Number \_\_\_\_\_ Expiry \_\_\_\_\_

Signature \_\_\_\_\_

Cheques should be made payable to  
**ACWWA**  
PO Box 28141 Dartmouth, NS B2W 6E2  
Phone 902-434-6002 Fax 902-435-7796